MPE ESTIMATION

Test report
On Behalf of
ChongQing Lavid Industrial Co., Ltd.
For
300M wireless repeater
Model No.: LV-WR03, LV-WR01

FCC ID: 2AOQ6LV-WR03

Prepared for :	**ChongQing Lavid Industrial Co., Ltd.** **No 6 Building Lianhe road, Economic and Technological Development Zone, Wanzhou, China**
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Date of Test:	**Sep. 26, 2018 ~ Oct. 09, 2018**
Date of Report:	**Oct. 09, 2018**
Report Number:	**HK1809261215-2E**

1,**Limit for General Population/ Uncontrolled Exposures**

Frequency	**Power density (mW/ cm^2)**	**Averaging time(minutes)**
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

2, Estimation Result

For antenna 1:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm^2)
11b	13.89	13±1(14)	25.12	1	1.2589	0.00629
11g	12.41	12±1(13)	19.95	1	1.2589	0.00500
11n/HT20	10.43	10±1(11)	12.59	1	1.2589	0.00315
11n/HT40	10.08	10±1(11)	12.59	1	1.2589	0.00315

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1809261215-1E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=1dBi, antenna port 2 gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	CH1	13.26	21.184	1	1.2589	0.00531
	CH6	13.82	24.10	1	1.2589	0.00604
	CH11	13.89	24.49	1	1.2589	0.00614
11g	CH1	12.11	16.26	1	1.2589	0.00407
	CH6	12.33	17.10	1	1.2589	0.00428
	CH11	12.41	17.42	1	1.2589	0.00436
11n/HT20	CH1	10.43	11.04	1	1.2589	0.00277
	CH6	10.42	11.02	1	1.2589	0.00276
	CH11	10.35	10.84	1	1.2589	0.00272
11n/HT40	CH1	9.91	9.79	1	1.2589	0.00245
	CH4	10.08	10.19	1	1.2589	0.00255
	CH7	10.06	10.14	1	1.2589	0.00254

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1809261215-1E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=1dBi, antenna port 2 gain=1dBi.

For antenna 2:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	14.16	14±1(15)	31.62	1	1.2589	0.00792
11g	12.62	12±1(13)	19.95	1	1.2589	0.00500
11n/HT20	10.50	10±1(11)	12.59	1	1.2589	0.00315
11n/HT40	10.32	10±1(11)	12.59	1	1.2589	0.00315

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1809261215-1E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=1dBi, antenna port 2 gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	CH1	14.16	26.06	1	1.2589	0.00653
	CH6	13.85	24.27	1	1.2589	0.00608
	CH11	14.05	25.41	1	1.2589	0.00637
11g	CH1	12.46	17.62	1	1.2589	0.00442
	CH6	12.62	18.28	1	1.2589	0.00458
	CH11	12.54	17.95	1	1.2589	0.00450
11n/HT20	CH1	10.46	11.12	1	1.2589	0.00279
	CH6	10.50	11.22	1	1.2589	0.00281
	CH11	10.46	11.12	1	1.2589	0.00279
11n/HT40	CH1	10.09	10.21	1	1.2589	0.00256
	CH4	10.32	10.76	1	1.2589	0.00270
	CH7	10.16	10.38	1	1.2589	0.00260

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1809261215-1E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=1dBi, antenna port 2 gain=1dBi.

For MIMO:

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	--	--	--	--	--	--
11g	--	--	--	--	--	--
11n/HT20	13.47	13±1(14)	25.12	4.01	2.518	0.01259
11n/HT40	13.21	13±1(14)	25.12	4.01	2.518	0.01259

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1809261215-1E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=1dBi, antenna port 2 gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	CH1	--	--	--	--	--
	CH6	--	--	--	--	--
	CH11	--	--	--	--	--
11g	CH1	--	--	--	--	--
	CH6	--	--	--	--	--
	CH11	--	--	--	--	--
11n/HT20	CH1	13.46	22.18	4.01	2.518	0.01112
	CH6	13.47	22.23	4.01	2.518	0.01114
	CH11	13.42	21.98	4.01	2.518	0.01102
11n/HT40	CH1	13.01	20.00	4.01	2.518	0.01002
	CH4	13.21	20.94	4.01	2.518	0.01050
	CH7	13.12	20.51	4.01	2.518	0.01028

Note: $Pd = \frac{Pout * G}{4\pi r^2}$;

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1809261215-1E, The MIMO mode power is max, so only calculate max power mode and antenna port 1 gain=1dBi, antenna port 2 gain=1dBi.

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